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Attachment 3

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
81 Higuera Street, Suite 200
San Luis Obispo, California 93401-5427**

ORDER NO. 97-66

**WASTE DISCHARGE/WATER RECLAMATION REQUIREMENTS
FOR
CYPRESS RIDGE MUTUAL WATER COMPANY (PRODUCER) AND
CYPRESS RIDGE LIMITED PARTNERSHIP (USER),
SAN LUIS OBISPO COUNTY**

The California Regional Water Quality Control Board, Central Coast Region (hereafter Board), finds:

1. Denis Sullivan filed a Report of Waste Discharge on behalf of Cypress Ridge Mutual Water Company and Cypress Ridge Limited Partnership on May 17, 1996, in accordance with Sections 13260 and 13522.5 of the California Water Code. The report was subsequently amended and revised on January 3, February 20, June 5, July 8, and October 17, 1997. The report was filed for authorization to discharge and reclaim water from a domestic wastewater treatment facility serving a proposed residential and commercial development in San Luis Obispo County. Cypress Ridge development is to be located on the Nipomo Mesa one mile east of Highway One and bordered by Halcyon, El Campo and Woodland Roads. The 386 acre area will include 386 clustered residential units, golf course, community center, post office and recreational facilities. Wastewater facilities are to be located within the open space area.
2. Cypress Ridge Limited Partnership (Discharger) proposes to construct a wastewater reclamation facility serving the entire development. Excess treatment and disposal capacity will also be available for contract use by some nearby developments. The proposed facilities are shown on Attachments "A" and "B" of this Order. The Discharger has formed the Cypress Ridge Mutual Water Company as a mutual benefit corporation to own, operate, and maintain the facilities. The Corporation will include all property owners served by the wastewater facilities and will succeed Cypress Ridge Limited Partnership as properties are sold. Cypress Ridge Limited Partnership will retain ownership and operational responsibility for the golf course reclamation areas.
3. Up to 140,000 gallons per day (gpd) of domestic wastewater will be treated at the proposed facility. The proposed treatment facilities consist of oxidation and clarification in sequencing batch reactors, chemical addition, filtration and disinfection. Treated wastewater will be reclaimed for golf course irrigation. Emergency and/or wet weather disposal capacity is provided in an evaporation/percolation pond at the treatment facility site. Design capacity of the proposed treatment facility is estimated by the Discharger to be 140,000 gpd.
4. Soil conditions in the vicinity of the proposed disposal and reclamation areas are characterized by gently rolling sand dune deposits. Depth to ground water in the vicinity of the treatment/disposal area is approximately 60 feet and 20 to 60 feet throughout the reclamation area. The development is located adjacent to Black Lake Canyon, a biologically sensitive area.
5. The Water Quality Control Plan, Central Coast Basin (Basin Plan) was adopted by the Board and approved on September 8, 1994. The Basin Plan incorporates statewide plans and policies by reference and contains a strategy for protecting beneficial uses of State waters.
6. Title 22, Chapter 3 of the California Code of Regulations specifies State Department of Health Services' criteria for use of reclaimed water. The Board has consulted with the State and County.

Health Departments regarding these reclamation requirements.

7. Present and anticipated beneficial uses of ground water in the vicinity of the discharge include: Domestic, Municipal, Agricultural and Industrial Supply. The discharge is in the vicinity of the Lower Nipomo Mesa ground water sub-basin for which the Basin Plan specifies the following ground water quality objectives:

Total Dissolved Solids	710 mg/l
Sodium	90 mg/l
Chloride	95 mg/l
Sulfate	250 mg/l
Boron	0.15 mg/l
Nitrogen (as N)	5.7 mg/l

8. Existing ground water constituent concentrations in the vicinity of the discharge are as follows:

Total Dissolved Solids	346 mg/l
Sodium	48 mg/l
Chloride	62 mg/l
Nitrogen (as N)	2.8 mg/l

9. San Luis Obispo County is the lead agency for California Environmental Quality Act (CEQA) review of this project. On March 18, 1997, San Luis Obispo County Board of Supervisors certified a final Environmental Impact Report (EIR) for the project.

10. CEQA requires a responsible agency to make certain findings regarding that portion of the project being approved by the responsible agency. Regarding the portion of the project that a responsible agency approves, it must mitigate or avoid any significant environmental effect that is within its powers. (CEQA Guidelines sec. 15096 (g).) The Regional Board's powers are limited to protection of water quality and abatement of nuisance associated with waste discharge.

11. The EIR did not identify significant, potentially significant or cumulatively significant environmental effects associated with operation of the wastewater treatment plant, discharge or reclamation which involve water quality or nuisance associated with wastewater discharge/reclamation. However, conditions of

approval specified by the County include requirements to implement mitigation measures and a monitoring program to prevent water quality impacts from pesticides used on the golf course. This Order is designed to coordinate with the County's requirements to protect environmental resources and water quality.

12. Discharge of waste is a privilege, not a right, and authorization to discharge is conditional upon the discharge complying with provisions of Division 7 of the California Water Code and any more stringent effluent limitations necessary to implement water quality control plans, to protect beneficial uses, and to prevent nuisance. Compliance with this Order should assure this and mitigate any potential adverse changes in water quality due to discharge.
13. On September 16, 1997, the Board notified the Discharger and interested agencies and persons of its intent to issue waste discharge requirements for the discharge and has provided them with a copy of the proposed Order and an opportunity to submit written views and comments.
14. After considering all comments pertaining to this discharge during a public hearing on December 5, 1997, this Order was found consistent with the above findings.

IT IS HEREBY ORDERED, pursuant to authority in Section 13263 of the California Water Code, Cypress Ridge Limited Partnership and Cypress Ridge Mutual Water Company, its agents, successors, and assigns, may discharge and reclaim waste at Cypress Ridge Wastewater Reclamation Facilities, providing compliance is maintained with the following:

(Note: Other prohibitions and conditions, definitions, and the method of determining compliance are contained in the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January 1984.)

Throughout these requirements footnotes are listed to indicate the source of requirements specified. Requirement footnotes are as follows:

A = California Code of Regulations, Title 22
B = Basin Plan

Requirements not footnoted are based on Staff's professional judgment.

PROHIBITION

1. Discharge to areas other than the landscape/golf course irrigation areas or evaporation/percolation pond shown in Attachment A, is prohibited. Use of the evaporation/percolation pond is limited to short term wet weather or emergency disposal.
2. Discharge of any wastes including overflow, bypass, overspray and runoff from transport, treatment, or disposal systems to adjacent drainageways or adjacent properties is prohibited.
3. Bypass of the treatment facility and discharge of untreated or partially treated wastes directly to the disposal or reclamation areas is prohibited.^A

DISCHARGE SPECIFICATIONS

(For all discharges from treatment facility)

1. Daily flow averaged over each month shall not exceed 140,000 gallons.
2. Freeboard shall exceed two feet in the evaporation/percolation pond at all times unless the pond is specifically engineered and approved by the Executive Officer for a different freeboard.
3. Wastewater treatment and storage facilities shall be managed to exclude the public and posted to warn the public of the presence of wastewater.
4. Discharge of wastewater shall not occur within 100 feet of any well used for domestic purposes.

RECLAMATION SPECIFICATIONS

(For reclaimed water, in addition to Discharge Specifications listed above)

1. All reclaimed water systems shall be installed in a manner consistent with the provisions of Title 17 and Title 22 of the California Code of Regulations and the Uniform Plumbing Code regarding dual plumbed systems, cross-connection prevention, and protection of public health. Design and installation of reclaimed water systems shall be reviewed by State and County Health Departments for approval prior to operation. Written approval of both State and County Health Departments

shall be submitted to the Regional Board Executive Officer by the Discharger prior to operation of system.

2. Reclaimed water discharged to irrigation reclamation areas shall at all times be adequately oxidized, coagulated, clarified, filtered, disinfected^A and shall not exceed the following limitations:

<u>Parameter</u>	<u>Units</u>	<u>Mean</u>	<u>Maximum</u>
BOD ₅	mg/l	10	30
Suspended Solids	mg/l	10	30
Settleable Solids	ml/l	0.1	0.3
Turbidity ^A	NTU	2	5*
Total Dissolved Solids ^B	mg/l		1000
Dissolved Oxygen	mg/l	Minimum of 2.0	
pH ^B	units	Within range 6.5-8.4	

*Turbidity must not exceed 5 NTU more than 5% of the time and must not exceed 10 NTU.

3. The median number of coliform organisms in reclaimed water shall not exceed 2.2 MPN per 100 ml, as determined from the bacteriological results of the last 7 days for which analyses have been completed, and the number of coliform organisms shall not exceed 230 MPN per 100 ml in any single sample.^A
4. If chlorine is used as disinfectant, free chlorine residual in reclaimed water shall equal or exceed 0.5 mg/l, as measured immediately after the chlorine contact zone, chlorine contact time shall exceed 90 minutes, and chlorine contact time multiplied by the residual (CT) shall equal at least 450. Alternative disinfection systems must be approved by the California Department of Health Services.
5. Delivery of reclaimed water shall cease and all wastewater shall be contained within the effluent holding pond if: a) disinfection of wastewater ceases at any time; or, b) reclamation specifications are violated or threaten to be violated.

6. Irrigation with reclaimed water shall occur at a time and in a manner to prevent or minimize public contact with reclaimed water and to allow irrigated areas maximum opportunity to dry before use by the public. Drinking fountains shall be protected from direct or windblown spray of reclaimed water.
7. All reclamation areas shall be posted to warn the public that reclaimed water is being stored or used.
8. All property owners, residents and personnel involved in producing, transporting or using reclaimed water shall be informed of possible hazards associated with contact or use of reclaimed water.
9. Reclaimed water valves, outlets etc. shall be marked to differentiate reclaimed water facilities from potable water facilities. Proper backflow and cross-connection protection for domestic water services and irrigation wells shall be provided.
10. Reclaimed water valves, outlets, quick couplers and sprinklers shall be of a type, or secured in a manner, that permits operation only by authorized personnel. Use or installation of hose bibs on the reclaimed water system shall not be permitted.
11. Reclaimed water shall be applied at a rate and volume not to exceed vegetative demand and soil moisture holding conditions. Special precautions must be taken to prevent clogging of spray nozzles, over watering and ponding, and to minimize runoff. Pipelines shall be maintained to prevent leaks.
12. Reclaimed water shall not be used for irrigation during periods of extended rainfall and/or runoff.
13. Reclaimed water systems shall be inspected on at least a weekly basis to assure proper operation, absence of leaks and absence of illegal connections.

GROUND WATER LIMITATIONS

1. The discharge shall not cause a significant increase of mineral constituent concentrations in underlying ground waters.

2. The discharge shall not cause concentrations of chemicals and radionuclides in groundwater to exceed limits set forth in Title 22, Chapter 15, Articles 4, 4.5, 5 and 5.5 of the California Code of Regulations.^B

PROVISIONS

1. The Discharger shall comply with "Monitoring and Reporting Program No. 97-66," as specified by the Executive Officer.
2. The Discharger shall comply with all items of the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January 1984 and included as part of this Order.
3. The wastewater treatment facilities shall be operated by qualified (State certified) personnel according to the requirements specified in Section 13627 of the California Water Code.
4. The Discharger shall develop and update (as necessary) an Engineering Report on the Production, Distribution and Use of Reclaimed Water in conformance with Title 22. Production of reclaimed water shall not commence without approval of the Engineering Report by the Executive Officer, after consultation with State and County Health Departments. Revisions to the engineering report shall also be subject to review and approval of the Executive Officer.^A
5. The Discharger shall submit for approval by the Executive Officer a preventative maintenance program consistent with requirements specified in Title 22 of the California Code of Regulations, prior to distribution of reclaimed water.^A
6. Pursuant to Title 23, Division 3, Chapter 9, of the California Code of Regulations, the Discharger must submit a written report to the Executive Officer not later than June 5, 2001, addressing:
 - a) Whether there will be changes in the continuity, character, location, or volume of the discharge; and,
 - b) Whether, in their opinion, there is any portion of the Order that is incorrect, obsolete, or

otherwise in need of revision.

7. The Discharger shall record CC&Rs for the Cypress Ridge development, which have been approved by the Executive Officer, prior to discharge commencing.

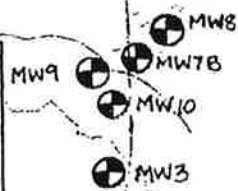
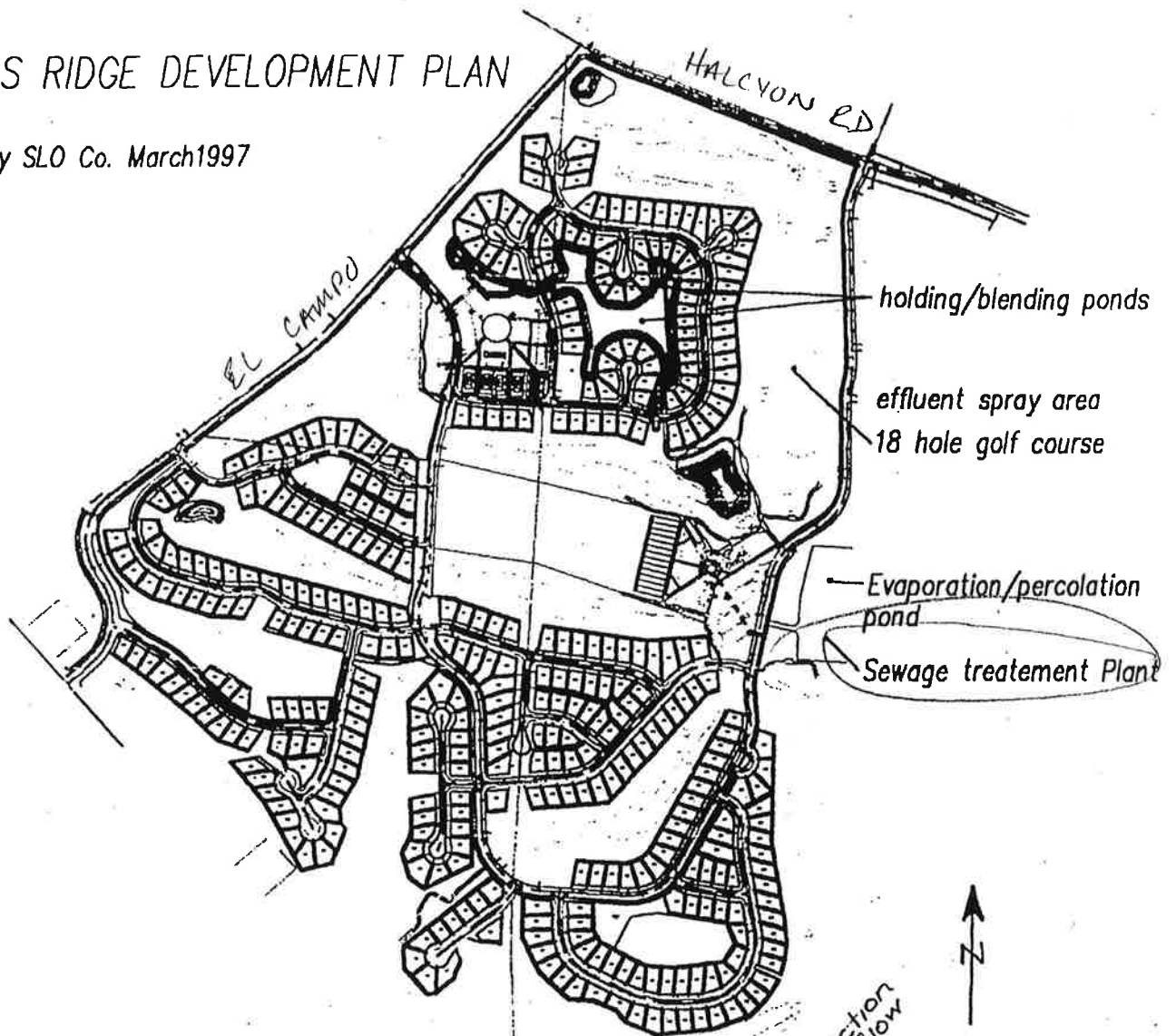
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I, ROGER W. BRIGGS, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Central Coast Region, on December 5, 1997.

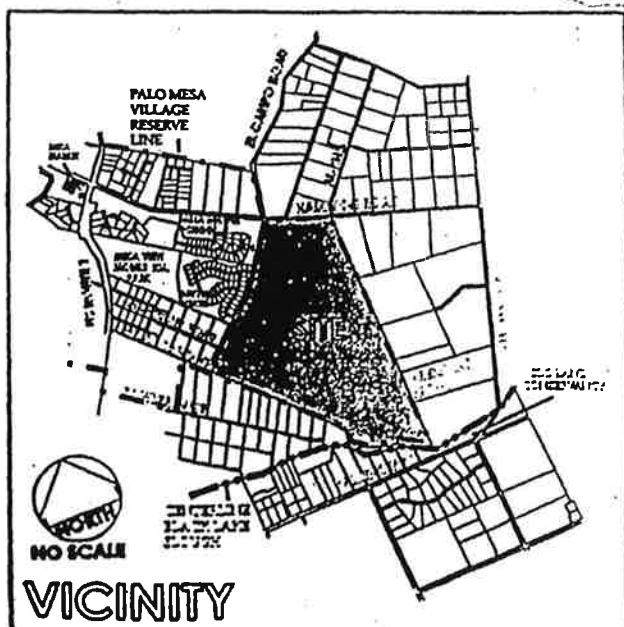
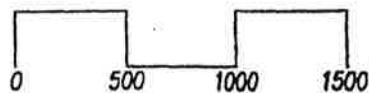

Executive Officer

CYPRESS RIDGE DEVELOPMENT PLAN

approved by SLO Co. March 1997



Black Lake Slough



**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

**MONITORING AND REPORTING PROGRAM NO. 97-66
FOR**

**CYPRESS RIDGE MUTUAL WATER COMPANY AND
CYPRESS RIDGE LIMITED PARTNERSHIP,
SAN LUIS OBISPO COUNTY**

EFFLUENT MONITORING

Representative samples of effluent discharged/reclaimed shall be collected and analyzed as follows:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Sampling and Analyzing Frequency</u>
Daily Flow	MG	Metered	Daily
Maximum Flow	MGD	Metered	Monthly
Average Flow	MGD	Calculated	Monthly
Turbidity ¹	NTU	Metered	Continuous ^A
Chlorine Residual	mg/l	Metered ²	Continuous
Total Coliform Organisms	MPN/100 ml	Grab	Daily ^A
Settleable Solids	ml/l	Grab	Daily ^A
BOD ₅	mg/l	24-hr. composite	Weekly
Suspended Solids	mg/l	24-hr. composite	Weekly
Dissolved Oxygen	mg/l	Grab	Weekly
pH	units	Grab	Weekly
Total Dissolved Solids	mg/l	24-hr. composite	Quarterly (Jan, Apr, July & Oct)

¹ Turbidity shall be monitored both prior to and following filtration, prefiltered effluent turbidity shall be no greater than 5 NTU.

² Verified/calibrated by grab samples.

RECLAMATION AREA MONITORING

All reclamation areas shall be inspected daily for proper sprinkler operation, runoff, erosion, saturated surface areas, and odors. Evidence of any condition of this nature shall be reported to the Executive Officer within 24 hours of knowing of such conditions, and promptly investigated and remedied. A record shall be kept of dates and nature of observations and remedies and of when use of each spray disposal area is alternated or suspended. A summary of any problems found at the spray disposal fields and corrective actions taken shall be included in each monitoring report.

GROUND WATER MONITORING

Discharger shall investigate ground water upgradient and downgradient of the discharge in order to identify impacts caused by the discharge. Ground water sampling should include (but not be limited to) the constituents listed below in the ongoing ground water monitoring program. The ongoing ground water monitoring program shall include representative upgradient and downgradient samples collected from the first available ground water and analyzed as follows:

<u>Parameter</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling and Analyzing Frequency</u>
Static Water Level	Feet (below ground surface)		Semi-annually (Jan/July)
Total Dissolved Solids	mg/l	Grab	Semi-annually (Jan/July)
Sodium	mg/l	Grab	Semi-annually (Jan/July)
Total Nitrogen (as N)	mg/l	Grab	Semi-annually (Jan/July)
Sulfate	mg/l	Grab	Semi-annually (Jan/July)
Boron	mg/l	Grab	Semi-annually (Jan/July)

REPORTING

Monthly reports shall be submitted by the 30th day of the month following sampling and shall include all data collected or calculated over the previous month including:

1. Results of effluent and ground water monitoring as required;
2. A summary of operational problems, plant and equipment malfunctions, and any diversion of reclaimed water which does not meet the requirements specified in this Order;
3. A record of equipment or process failures initiating an alarm, as well as any corrective and preventative measures taken, and
4. Results of reclamation area monitoring described above.

Any discharge of untreated or partially treated wastewater to the reclamation areas shall be reported immediately by telephone to the Regional Board, State Department of Health Services and San Luis Obispo County Health Department.

Annual reports shall be submitted by January 30 of each year in accordance with Standard Provisions and Reporting Requirement C.16. Annual reports shall also be provided to the California Department of Health Services, Drinking Water Field Operations Branch, P. O. Box 4339, Santa Barbara, CA 93140-4339.

ORDERED BY


Executive Officer

December 5, 1997

Date